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Semester Overview 2019-2020

Class: 8		April 2019 - October 2019
Subject	Name of Units	Skills
		Reading and viewing:
ENGLISH	The Ant-Lion	 Read fluently and demonstrate
	(Prose)	comprehension and
		interpretation of a range of
	On the	grade-appropriate literary
	Grasshopper and	texts, featuring some
	Cricket (Poem)	complexity in theme, writing techniques and specialised
	The World-	language, including literature
	Renowned Nose	from modern and ancient
	(Prose)	cultures, short stories, novels, non-fiction and instructional
	Where the Mind is	material, reports and articles,
	Without Fear	advertising and promotional
	(Poem)	materials, authentic texts,
		poems and plays in a variety of
	The Adventure of	forms.
	the Dying	
	Detective	Demonstrate comprehension of
	(Prose)	visual texts with specialized
	-1 144 . 144. 1	features and complex ideas
	The West Wind	(e.g., visual components of
	(Poem)	media such as magazines,
		newspapers, web sites, reference books, graphic
		reference books, graphic novels, broadcast media, videos,
		advertising and promotional
		materials)
		• Select and use various

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- strategies before reading and viewing to develop understanding of text, including setting a purpose, accessing prior knowledge to make and share connections, making predictions, asking questions, previewing texts
- Select and use various strategies during reading and viewing to construct, monitor, and confirm meaning, including predicting, making connections, asking and answering questions, making inferences and drawing conclusions. figuring out words. unknown reading determining selectively, importance of ideas/events. summarizing and synthesizing, identifying facts, opinions and writers'/narrator's/characters' bias
- Select and various use strategies after reading and viewing to confirm and extend meaning, including making inferences and drawing conclusions, reflecting and responding, using graphic organizers to record information and summarizing and synthesizing
- Respond to selections they read or view, by expressing opinions and making judgements

supported by reasons. explanations, and evidence, explaining connections (text-toself, text-to-text, and text-toworld), identifying personally meaningful selections, passages, images and comparing and various viewpoints, analysing descriptive texts to infer meaning, opinion and attitude and synthesizing new ideas

Identify how structures and features of text work develop meaning, including form, function, and genre of text (e.g., brochure about smoking to inform students; genre persuasive) 'text features' (e.g., copyright, table of contents, headings, index. glossary, diagrams, sidebars, hyperlink, pull-quotes) literary elements (e.g., characterization, mood, setting, viewpoint, foreshadowing, conflict, protagonist, antagonist, theme, descriptions) non-fiction elements (e.g., topic sentence, development of ideas with supporting details, central idea, evidence example, or explanation) literary devices (e.g., imagery, onomatopoeia, metaphor, simile, symbolism, personification and other figures of speech) idiomatic expressions

Writing:

- Write a variety of clear personal, formal, instructional, persuasive, argumentative, imaginative and visual representations that demonstrate connections to experiences, ideas, opinions and visual clues.
- Clearly develop ideas, mood and setting by using effective supporting details, explanations, analysis, insights and sensory details
- Demonstrate sentence fluency through strong, wellconstructed sentences that demonstrate a variety of lengths and patterns, with an increasingly fluid style, rhythm and flow
- Demonstrate effective word choice through the use of precise nouns, verbs, adjectives and modifiers, purposeful use of figurative and sensory language with increasing sophistication
- Demonstrate the effective use of tone and voice (first person, second person, omniscient narrator etc.) to suit the purpose and audience
- Use a format and/or

organisation that is meaningful, effective logical, and appropriate to the purpose and audience with an appropriate beginning (e.g. salutation in a letter, address, indentation etc.) middle (subject line. paragraphing etc.) and ending (closing etc.)

- Demonstrate effective control over all aspects of coherence and cohesion (cohesive devices, referencing, substitution, sequence markers, establishing logical relationships, conjunctions, connectives etc.)
- Select and use various strategies before writing and representing, including establishing a purpose, identifying an audience, genre, form generating, and and selecting, developing, and organizing ideas from personal interest, prompts, texts, and/or research
- Select and use various strategies during writing and representing to express and refine thoughts, including analysing models of literature accessing multiple sources of information consulting reference materials considering and applying feedback from discussions to revise ideas,

- organization, voice, word choice, and sentence fluency revising and editing
- Select and use various strategies after writing and representing to improve their work, including checking their against established work criteria revising to enhance writing traits (e.g., ideas, sentence fluency, word choice, voice, organization) editing for conventions (e.g., grammar and capitalization, usage, punctuation, spelling
- Use writing and representing to express critique, personal responses and relevant opinions, and respond experiences and texts Write short pieces of continuous prose in response to questions developing explanations, analysing the relationships in ideas and information, making generalizations, speculating about alternative viewpoints, providing supporting evidence and presenting personal opinions.
- Use the features and conventions of language accurately to express meaning in writing and representing, including complete simple, compound, and complex

subordinate sentences and clauses independent correct subject-verb and pronoun agreement in sentences with compound subjects correct and effective use of punctuation conventional Canadian spelling for familiar and frequently used words spelling unfamiliar words by applying strategies (e.g., knowledge, phonic use common spelling patterns, dictionaries, thesaurus) legible writing appropriate to context and purpose

Grammar and Vocabulary:

- Identify and explain how syntactic and structural features convey meaning
- Use tenses (simple, continuous, perfect and perfect continuous) accurately to convey time and sequence of events
- Use pronouns, referencing and substitution accurately to indicate clear relationships within and between sentence
- Identify and use a wide range of simple, compound and complex sentences with flexibility and accuracy to suit the purpose and format of the text

- Explore and use varied sentence structures to convey the same meaning
 - Use punctuation and other structural clues to infer and convey meaning
- Select and use words (verbs, noun phrases, adjectives and adjective phrases, adverbs, modifiers) to convey precise meaning, nuances, intensity, mood, attitude, register, tone and opinion
- Identify and use synonyms and paraphrase effectively
- Identify and record how descriptive language is used in texts to convey meaning
- Use a wide range of vocabulary, including phrasal verbs and idiomatic expressions fluently and flexibly to convey precise meaning
- Demonstrate an awareness of style and collocation
- Demonstrate full control over spelling and word formation.

HINDI

Chapter 1: Itne unche utho

Chapter 2: Khule Aakash me

Chapter 3: Laakh ki churiyan

Chapter 4: Jivan ka lakshya

Chapter 16: Pardesh me basa bharat

Along with Abyas Pustika and Sparsh Vyakaran

Reading

- Read fluently and demonstrate comprehension and interpretation of a range of grade-appropriate literary texts, featuring some complexity in theme, writing techniques and specialised language
- Use a variety of before, during and after reading strategies to make meaning and locate information
- Identify how structures and features of text work to develop meaning
- Read complex texts actively and comprehend the literal and figurative uses of language
- Continue to use resources to increase vocabulary and gain deeper understanding by using context clues
- Summarize stories and discuss author's use of word choice

Writing

- Write short and long answers (vistar me uttar dena) to convey information or opinions with increasing clarity
- Write a variety of clear personal, formal, instructional, persuasive, argumentative, imaginative and visual representations that demonstrate connections to experiences, ideas, opinions and visual clues (essays upto 200

- words, news article writing, diary writing, and picture composition).
- format and/or Use α organisation that is meaningful, effective logical, and appropriate to the purpose and audience with an appropriate beginning (e.g. salutation in a letter, address, indentation etc.) middle (subject paragraphing etc.) and ending (closing etc.)
- Use writing and representing to critique, express personal responses and relevant opinions, and respond to experiences and texts
- Demonstrate sentence fluency through strong, wellconstructed sentences that demonstrate a variety of lengths and patterns, with an increasingly fluid style, rhythm and flow
- Demonstrate effective word choice through the use of precise nouns, verbs, adjectives and modifiers, purposeful use of figurative and sensory language with increasing sophistication
- Demonstrate fluent and precise transitions between sentences, ideas, and paragraphs
- Demonstrate the effective use of tone and voice to suit the purpose and audience

- Use the features and conventions of language accurately to express meaning in writing and representing
- Comprehend unseen passages, analyze and give logical answers
- Choose and use a relevant prewriting strategy that will help to prepare for the assignment
- Review, revise and edit writing in order to improve it
- Evaluate own and other's writing according to established criteria and rubrics
- Take the help of computer to write articles, poems, stories or news

Listening and speaking

- Listen critically to understand and analyse ideas and information using effective listening strategies
- Select and use various strategies when listening to make and clarify meaning
- Speak and listen to interact with others for a variety of purposes
- Speak to explore, express, and present a range of ideas, information, and feelings for different purposes and audiences using a variety of strategies
- Select and use various strategies when interacting with others
- Select and use various

- strategies when expressing and presenting ideas, information, and feelings
- Demonstrate enhanced knowledge of vocabulary and its usage
- Recognize and apply the features of oral language to convey and derive meaning
- Respond to selections they read or view, by expressing opinions and making judgements supported by reasons, explanations, and evidence, explaining connections

Grammar

- Identify and explain how syntactic and structural features convey meaning.
- Use all four forms of 'Ra'(Padon, Ref etc) in words
- Understand Tatsam and tadbhav
- Understand the difference between ki and kii
- Understand sanyukt akshar and Sanyukt vyanjan
- Identify and use 'Nipaat' (To, bhi, par)
- Use tenses (past, present and future) accurately to convey time and sequence of events
- Understand different types of sentences (simple, compound and complex)
- Identify and use noun(vyakti vachak, jati vachak and bhavvachak sangya with

examples and uses) and pronoun (purush vachak, prashan vachak, sambandh vachak, nij vachak and nishay and anishchay vachak with examples and uses)

- Use direct and indirect speech effectively with appropriate punctuation
- Identify and use antonyms, synonyms, gender, singular, plural and paraphrase effectively
- Use a wide range of vocabulary, including phrasal verbs and idiomatic expressions fluently and flexibly to convey precise meaning
- Demonstrate full control over spelling and word formation
- Use karak chinha, prefix and suffix and also identify vartini ki ashudhiyan
- Demonstrate effective control over use of verbs (types of verbs 'akarmak aur sakarmak kriya)
- Understand use of adverbs
- Format of the text
- Demonstrate effective control over use of verbs, adjectives and noun
- Use direct and indirect speech effectively with appropriate punctuation
- Demonstrate full control over spelling and word formation
- Use punctuation and other structural clues to infer and convey meaning

MATHS Number Sense: Understand that squaring is the Squares and inverse of square rooting, and square roots cubing is the inverse of cube Cubes and cube rooting roots Identify whether given α number is perfect α square/cube or not • Calculate the square root of a given number by prime factorization/ division method Apply the concepts of square root and cube root in real world problems Define base and exponent Exponents Recite and write numbers in exponential form Indicate if a number is written in exponential form, factor form or standard form Restate the rules for a base with an exponent of zero/one and other laws of exponents Convert numbers between exponential form, factor form and standard form Apply exponential laws to solve simple and complex problems Direct and Identify direct and indirect Inverse variation variation in the given situation Time and Work • Explain the concepts of direct and indirect variations using real life examples Apply the rules of direct/indirect variations to

solve real world problems • Compare the ratio proportion method and unitary method to solve same problem Apply the rules of unitary method to solve real world problems involving: Number of days and work done. • Recognize different types of Rational Numbers number systems • Understand the arithmetical properties of the numbers Represent a rational number on number line Algebra: • Define a linear equation and Linear Equations simple linear equation in one variable • Describe the rules to solve a simple linear equation Explain the rules of transposition Apply the rules for solving a simple linear equations to solve word problems • Understanding various 2-D and Geometry: 3-D shapes Understanding • Drawing 2-D representation of Shapes 3-D objects Representing 3-D shapes in 2-D • Verifying Euler's relation for 3-D figures with flat faces. Mensuration: different units of State Area of a

measurements

	Trapezium, a Polygon and Semicircle	 State/apply the formulas to calculate area of plane figures like trapezium, polygon and semicircle Calculate areas of irregular figures Apply the concepts of mensuration to solve real world problems
	 Data Handling: Statistics Graphical Representation of data 	 Collect/Organize data for appropriate statistical analysis Effectively display the information in data sets graphically in the form of a bar graph Apply the concepts learned to solve real world problems
PHYSICS	Chapter 1: Matter	 Distinguish the three states of matter in terms of movement of particles Relate the three states of matter with energy of movement of particles in them Describe the changes of state using kinetic theory Identify appropriate observable parameters in experiments Present the results in the form of tables Consider results using scientific knowledge and communicate these
	Chapter 2: Physical Quantities and	 Measure density of an irregular solid Measure density of a liquid

(Reduireks School- Confiden	Measurement	 Discuss the concept of floatation based on relative densities of solid and liquid Express result of measurement in proper unit with proper symbol Solve simple numerical problems based on formula of density Compare densities of matter in three state - solid, liquid and gas Make careful observations including measurements Gather data using formal units Make conclusions from collected data Make predictions using scientific knowledge and effectively communicating the
	Chapter 3: Force and Pressure	 Explain the turning effect of a force, with examples from daily life Define moment of force Express moment of force in proper units Solve simple numerical problems based on moment of force Define pressure Express pressure in proper units Solve simple numerical problems based on formula for pressure

	Describe pressure exerted by a
	liquid
	 Demonstrate pressure exerted
	by a gas
	Describe atmospheric pressure
	 Express thoughts that reveal
	originality, speculation,
	imagination, a personal
	perspective, flexibility in
	thinking, invention or creativity
	 Present ideas clearly and in
	logical order
	Define work
Chapter 4: Energy	 Express work I proper unit
	 Calculate work done in simple
	cases
	 Define kinetic energy
	• Express kinetic energy in
	proper units
	 Solve simple problems based on
	kinetic energy
	 Define potential energy
	 Define gravitational potential
	energy
	Solve simple problems based on
	gravitational potential energy
	Describe energy transformation
	in daily life situation
	Distinguish between energy and
	power
	Can plan an experimental investigation on demonstration
	investigation or demonstration
	using scientific processes

		 Can identify/select on the basis of attributes
CHEMISTRY	Chapter 1: Matter	 Describe the main postulate of kinetic theory of matter Explain the reason of change of one state of matter into another Define and explain the law of conservation of mass using examples
	Chapter 2: Physical and chemical change	 Illustrate different changes occurring in nature with examples learned in previous classes Perform some activities to show some well known changes Differentiate between physical and chemical changes and classify them
	Chapter 6:Chemical reactions	 Describe different types of chemical reactions with examples Identify the type of chemical reaction Identify different oxides as acidic, basic, amphoteric and neutral Explain the effect of heat on oxides of some metals
	Chapter 3: Elements compounds and mixtures	 Recall previous knowledge related to elements, compounds and mixtures Classify substances into elements, compounds and mixtures on the basis of their properties

		 Perform activities to separate components of mixture Explain the principle involved in using a particular technique in separating a mixture
BIOLOGY	Chapter 1: Transport in plants	 Explain the mechanism of transport of water and minerals in plants Explain the transport of prepared food in plants Draw, label and explain the structure of root hair and mechanism of water absorption by the roots Identify the type of movement of molecules (Osmosis, Diffusion, Active Transport) if conditions are given Define and understand process of transpiration and factors affecting it Enlist Uses of water in plants
	Chapter 6: The circulatory system	 Write the composition of blood Explain the functions of different components of blood Enlists different types of cells present in blood Describe structure and function of different cells of the blood Enlist functions of blood label diagram of heart Explain physiology of blood circulation in human body Draw the pathway of blood in human body to show double

	 circulation Differentiates between arteries and veins Understand and determine the compatibility of blood groups Define terms - Systemic Circulation, Hepatic Circulation, Systolic Pressure, Diastolic Pressure
Chapter 2: Reproduction in plants	 Define and understand the importance of reproduction Differentiate between asexual and sexual reproduction. Enlist explain and give examples for various methods of asexual reproduction in plants Draw, label and identify the importance of various parts of plants Explain the process of sexual reproduction in plants Dissect a flower and identify its parts Define and understand the
Chapter 3: Reproduction in humans	 Define and understand the types of pollination Label the diagrams of male and female human reproductive systems Comprehends the functioning of human reproductive system Comprehend the different changes that occur during puberty Address the problems of adolescence Define terms related to ecosystem

	Chapter 4: Ecosystem	 Differentiate among different levels of food pyramid Understand biotic and abiotic factors and their relation between all the members of the food web
HISTORY	Unit 1 The beginning of the Modern World	 Create a general idea of events and changes that occurred all over the world during the period of study Identify the basic differences between primary and secondary sources Recognize, understand and reflect on the important movements such as renaissance, reformation Analyze the radical changes brought about by the industrial revolution Evaluate the impact of imperialism on the world
	Unit 2: The Growth of Nationalism	 Identify the earliest Nationalist movements in History Examine major changes that occurred in the world due to the French revolution and the American War of Independence Analyze various factors leading to the French revolution Tracer the History of American War of Independence Identify the reasons for the Civil war Analyze the role played by Abraham Lincoln Evaluate and assess the impact

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		of the civil war
	Unit 2: Decline of Mughal Empire and Rise of Independent Regional Powers	 State the reasons for the decline of Mughal Empire List down the later Mughal rulers in power State the reasons behind the rise of the Independent Regional Powers
	Unit 3: Coming and Expansion of British East India Company	 State the reasons for British conquest of Bengal State the causes and results of the Carnatic wars Analyze the reasons for the British success Understand the methods of British expansion
CIVICS	Unit 1: Three main Organs of the Indian Government: Legislature, Executive, Judiciary	 Discuss the composition of the Indian parliament - the Lok Sabha and the Rajya Sabha Compare and understand the working of the Lok Sabha and the Rajya Sabha Describe the relation between the two houses Explain the powers and the functions of the Union Parliament State the qualification, election, powers and functions of the President, Prime Minister and Council of Ministers Discuss the composition of the Supreme court and the High Court and state the qualification and appointment of

		judges to the Supreme Court and the High Court • Highlight the powers and functions of the Judges of the Supreme Court and high courts • Discuss the concept of judicial review and court of record • Explain the term 'writ' giving examples
GEOGRAPHY	Unit 2: Population Dynamics	 Understand the distribution of population in the world Identify and describe factors affecting the population of a place Distinguish between over population and under population and its impact on society Understand the composition of population - Learn correlation between elements like age, sex, urban, rural; Population pyramid
	Unit 3: Migration	 Differentiate between the two terms "immigration" and emigration Explain the reason for migration from and to any area Analyze the migration of any area Identify the regions of the world where huge migration took place during historical period Explain the meaning of "brain drain" in India Identify the cause of brain drain in India Analyze the positive and negative impact of brain drain

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		in India
	Unit 4: Urbanisation	 Describe the term urbanisation Identify causes of urbanisation Describe the impact of urbanisation Differentiate a smart city from any other urban center
	Unit 5: Natural and Man made disasters	 Differentiate between man made and natural disasters Discuss importance of disaster management Demonstrate (through drill) measures to be taken during any disaster Describe the causes, effect and impact of various kinds of disaster List the measures to be adopted to prevent disaster
ICT	Chapter 1: Operating system and GUI	 Definition, objective and functions of an operating system Types of operating system Interfaces in Operating system User interface and its types CUI and GUI Advantages of GUI
	Chapter 2: Introduction to M.S. Access	 Different Data Types Selecting proper Data Types Data Organization Database and DBMS Advantages Objects in M. S. Access-Table, Form, Query and Report Tables in M. S. Access (Structure Design of the fields in a table)

		Setting and removing Primary Key Adding, modifying, viewing and deleting Records
	Chapter 3: Advanced Features of M. S. Access	 Creating queries, forms and reports Formatting Forms and Reports Printing Reports Project
	Chapter 4: Advanced tags in HTML	 Web page designing that includes Inserting tables Inserting Images Creating Lists Hyperlinks Marquee
	Chapter 5:	App installation
	App development	 Commonly known apps Types of app Mobile operating system Tools used to develop app App development with app inventor.
GUJARATI	Chapter 1:	Listening and speaking:
OOVANA 12	Chabutaro	 Vary the use of vocabulary and level of detail according to
	Chapter 2: Parvat Tara	purposeListen carefully in discussion,contribute with relevant
	Chapter 8:	comments and questions
	Charnoma	 Adapt the pace and volume of speaking when performing or
	Chapter 6:	reading aloud
	Narmada Maiya	 Understand the gist or the significant points of an account Speak on any topic confidently
		Grammar:
		• Establish the use of

- punctuation marks (question mark, full stop, comma, exclamation)
- Establish the use of tenses
- Understand one word for a group of words, rhyming words, gender related words, singularplural (vachan), adjective
- Identify a noun, pronoun, verb (kriya shabd) and adjective through reading comprehension

Reading:

- Read independently on any topic with expressions
- Read using the help of all matras
- Pronounce all the words correctly and clearly while reading and be able to understand their mistakes and try to correct them on their own
- Read articles, stories, dramas, jokes and poems with expression and correct articulation and enunciation
- Develop an awareness of the use of tenses while reading

Writing:

- Write short and long answers on their own (2-4 sentences)
- Write correct sentences while following grammatical rules
- Write small essays (100-150 words) and poems on their own
- Write a character sketch (atleast 10 sentences)
- Write their views and

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Semester 1

experiences in their own words
using correct language